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Anytime, anywhere: modal logics for mobile ambients 95%

Luca Cardelli , Andrew D. Gordon

**Proceedings of the 27th ACM SIGPLAN-SIGACT symposium on Principles of programming languages** January 2000

The Ambient Calculus is a process calculus where processes may reside within a hierarchy of locations and modify it. The purpose of the calculus is to study mobility, which is seen as the change of spatial configurations over time. In order to describe properties of mobile computations we devise a modal logic that can talk about space as well as time, and that has the Ambient Calculus as a model.
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Shape analysis for mobile ambients 95%

Hanne Riis Nielson , Flemming Nielson

**Proceedings of the 27th ACM SIGPLAN-SIGACT symposium on Principles of programming languages** January 2000

The ambient calculus is a calculus of computation that allows active processes to move between sites. We present an analysis inspired by state-of-the-art pointer analyses that safely and accurately predicts which processes may turn up at what sites during the execution of a composite system. The analysis models sets of processes by sets of regular tree grammars enhanced with context-dependent counts, and it obtains its precision by combining a powerful redex materialisation with a strong re ...
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Luca Cardelli , Andrew D. Gordon

**Proceedings of the 26th ACM SIGPLAN-SIGACT symposium on Principles of programming languages** January 1999
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Trust and partial typing in open systems of mobile agents 84%

James Riely , Matthew Hennessy

**Proceedings of the 26th ACM SIGPLAN-SIGACT symposium on Principles of programming languages** January 1999
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Using a coordination language to specify and analyze systems containing mobile components 82%

P. Ciancarini , F. Franzé , C. Mascolo

**ACM Transactions on Software Engineering and Methodology (TOSEM)** April 2000

Volume 9 Issue 2

New computing paradigms for network-aware applications need specification languages able to deal with the features of mobile code-based systems. A coordination language provides a formal framework in which the interaction of active entities can be expressed. A coordination language deals with the creation and destruction of code or complex agents, their communication activities, as well as their distribution and mobility in space. We show how the coordination language PoliS offers a flexible ...
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Proceedings - only: A system architecture for pervasive computing 80%

Robert Grimm , Tom Anderson , Brian Bershad , David Wetherall

**Proceedings of the 9th workshop on ACM SIGOPS European workshop: beyond the PC: new challenges for the operating system** September 2000

Pervasive computing, with its focus on users and their tasks rather than on computing devices and technology, provides an attractive vision for the future of computing. But, while hardware and networking infrastructure to realize this vision are increasingly becoming a reality, precious few applications run in this infrastructure. We believe that this lack of applications can be attributed to three characteristics that are inadequately addressed by existing systems. First, devices are heterogeneous ...
- 7**
Bisimulation congruences in safe ambients 80%

Massimo Merro , Matthew Hennessy

**ACM SIGPLAN Notices , Proceedings of the 29th ACM SIGPLAN-SIGACT symposium on Principles of programming languages** January 2002

Volume 37 Issue 1

We study a variant of Levi and Sangiorgi's Safe Ambients (SA) enriched with *passwords* (SAP). In SAP by managing passwords, for example generating new ones and distributing them selectively, an ambient may now program who may migrate into its computation space, and when. Moreover in SAP an ambient may provide different services depending on the passwords exhibited by its incoming clients. We give an *Its* based operational semantics for SAP and a labelled *bisimulation* based equi ...

#### 8 A debugging calculus for mobile ambients

80%

 GianLuigi Ferrari , Emilio Tuosto  
**Proceedings of the 2001 ACM symposium on Applied computing** March 2001

Advancements in network-aware computing has prompted the study of novel programming languages with advanced programming abstractions to support various forms of mobility and to coordinate and monitor the use of resources. This work addresses the issue of designing debuggers for network-aware programming languages. In our approach a debugger is viewed as being an extension of the underlying programming language with suitable debugging abstractions. We apply this idea to Cardelli and Go ...

#### 9 Computational flux

80%

 Robin Milner  
**ACM SIGPLAN Notices , Proceedings of the 28th ACM SIGPLAN-SIGACT symposium on Principles of programming languages - Volume 28** January 2001  
 Volume 36 Issue 3

#### 10 Detecting race conditions in large programs


77%

 Cormac Flanagan , Stephen N. Freund  
**ACM SIGPLAN — SIGSOFT workshop on on Program analysis for software tools and engineering** June 2001

The race condition checker `\rcc{}` statically identifies potential races in concurrent Java programs. This paper describes improvements to `\rcc{}` that enable it to be used on large, realistic programs. These improvements include not only extensions to the underlying analysis, but also an annotation inference algorithm and a user interface to help programmers understand warnings generated by the tool. Experience with programs containing up to 500,000 lines of code indicate that it is an ef ...

#### 11 Mobile agent security with the IPEditor development tool and the mobile UNITY language

77%

 Yasuyuki Tahara , Akihiko Ohsuga , Shinichi Honiden  
**Proceedings of the fifth international conference on Autonomous agents** May 2001

Many people consider that security is one of the biggest problems for practical use of mobile agents that move around the network and do their tasks. In this paper, we assert that this issue can be effectively managed by using IPEditor, the development support tool of mobile multi-agent applications that we have been released, and Mobile UNITY, a formal specification language of mobile agent applications. IPEditor helps developers to design applications with visual supports of agent behav ...

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 Victor Vianu  
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 Lorenzo Bettini , Michele Loreti , Rosario Pugliese  
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**Proceedings of the 2000 ACM symposium on Applied computing 2000** March 2000

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 Patty Kostkova , Julie A. McCann  
**Proceedings of the ACM international workshop on Data engineering for wireless and mobile access** August 1999

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